

MA 115 Exam 2 Formula Sheet

$$f(x) = a^x, a > 0, a \neq 0$$

$$f(x) = \log_a x, a > 0, a \neq 0$$

$$y = \log_a x \iff a^y = x$$

$$\log_a (AB) = \log_a (A) + \log_a (B)$$

$$\log_a \left(\frac{A}{B} \right) = \log_a (A) - \log_a (B)$$

$$\log_a (A^C) = C \log_a (A)$$

$$\log_b x = \frac{\log_a x}{\log_a b}$$

$$N(t) = N_0 2^{t/a}$$

$$N(t) = N_0 e^{rt}$$

$$R(t) = R_0 2^{-t/h}$$